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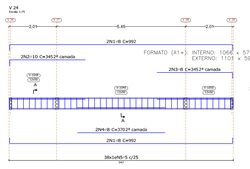
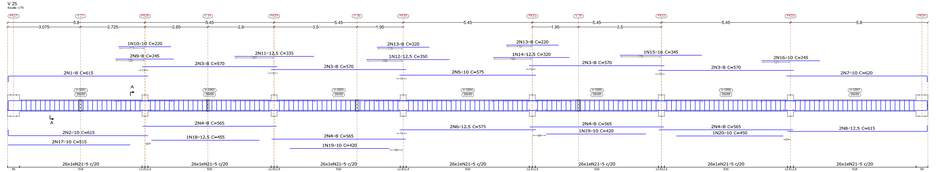
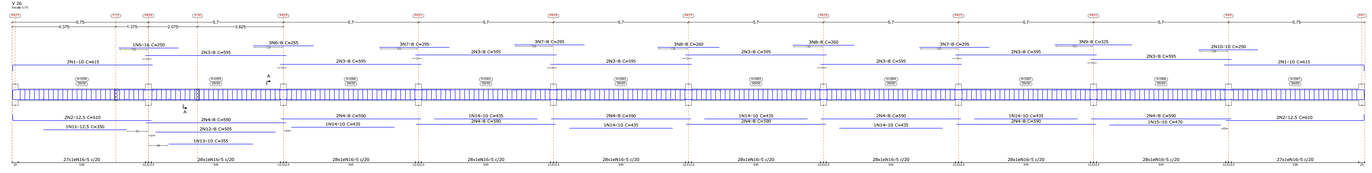
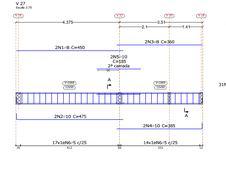
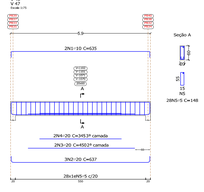
EXTERNO: 1101 x 594 mm

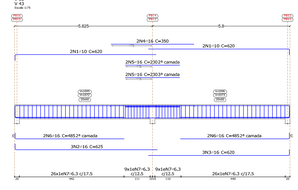


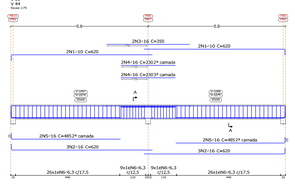


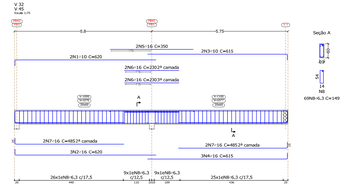


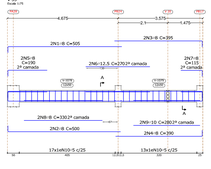


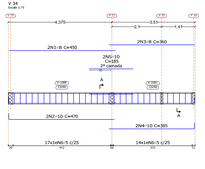


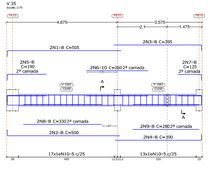












Baldrame
Desenho de vigas
Concreto: C30, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:75
Escala seções 1:75
Escala aberturas 1:25

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 24	1	⌀8	4	350 / 10	992	3968	15.7	
	2	⌀10	2	10 / 325	345	690	4.3	
	3	⌀8	2	325 / 10	345	690	2.7	
	4	⌀8	2	175	370	740	2.9	
	5	⌀5	38	10 / 5 / 12	112	4256		6.7
					Total+10%:		28.2	7.4
V 25	1	⌀8	2	350 / 10	615	1230	4.9	
	2	⌀10	2	10 / 590	615	1230	7.6	
	3	⌀8	8	570	570	4560	18.0	
	4	⌀8	8	565	565	4520	17.8	
	5	⌀10	2	575	575	1150	7.1	
	6	⌀12,5	2	575	575	1150	11.1	
	7	⌀10	2	330 / 290	620	1240	7.6	
	8	⌀12,5	2	330 / 290	615	1230	11.8	
	9	⌀8	2	245	245	490	1.9	
	10	⌀10	1	220	220	220	1.4	
	11	⌀12,5	2	335	335	670	6.5	
	12	⌀12,5	1	350	350	350	3.4	
	13	⌀8	4	220	220	880	3.5	
	14	⌀12,5	1	320	320	320	3.1	
	15	⌀16	1	345	345	345	5.4	
	16	⌀10	2	245	245	490	3.0	
	17	⌀10	2	515	515	1030	6.3	
	18	⌀12,5	1	455	455	455	4.4	
	19	⌀10	2	420	420	840	5.2	
	20	⌀10	1	450	450	450	2.8	
	21	⌀5	182	10 / 5 / 12	128	23296		36.6
					Total+10%:		146.1	40.3
V 26	1	⌀10	4	330 / 10	615	2460	15.2	
	2	⌀12,5	4	10 / 585	610	2440	23.5	
	3	⌀8	16	595	595	9520	37.6	
	4	⌀8	16	590	590	9440	37.3	
	5	⌀16	1	250	250	250	3.9	
	6	⌀8	3	255	255	765	3.0	
	7	⌀8	9	295	295	2655	10.5	
	8	⌀8	6	260	260	1560	6.2	
	9	⌀8	3	325	325	975	3.8	
	10	⌀10	2	250	250	500	3.1	
	11	⌀12,5	1	350	350	350	3.4	
	12	⌀8	2	505	505	1010	4.0	
	13	⌀10	1	355	355	355	2.2	
	14	⌀10	6	435	435	2610	16.1	
	15	⌀10	1	470	470	470	2.9	
	16	⌀5	278	10 / 5 / 12	128	35584		55.9
					Total+10%:		190.0	61.5

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 27	1	⌀8	2	450	450	900	3.6	
	2	⌀10	2	10 / 465	475	950	5.9	
	3	⌀8	2	360	360	720	2.8	
	4	⌀10	2	365 / 10	385	770	4.7	
	5	⌀10	2	185	185	370	2.3	
	6	⌀5	31	10 / 5 / 12	112	3472		5.5
					Total+10%:		21.2	6.1
V 28=V 29=V 46 V 47	1	⌀10	2	365 / 10	635	1270	7.8	
	2	⌀20	2	10 / 585	637	1911	47.1	
	3	⌀20	2	450	450	900	22.2	
	4	⌀20	2	345	345	690	17.0	
	5	⌀5	28	10 / 5 / 12	148	4144		6.5
					Total+10%:		103.5 (⌀5): 414.0	7.2 28.8
V 30=V 43	1	⌀10	4	355 / 10	620	2480	15.3	
	2	⌀16	3	10 / 605	625	1875	29.6	
	3	⌀16	2	355 / 10	620	1860	29.4	
	4	⌀16	2	350	350	700	11.1	
	5	⌀16	4	230 / 10	230	920	14.5	
	6	⌀16	4	10 / 460	485	1940	30.6	
	7	⌀6,3	70	10 / 5 / 12	150	10500	25.7	
					Total+10%:		171.8 (⌀2): 343.6	
V 31=V 44	1	⌀10	4	355 / 10	620	2480	15.3	
	2	⌀16	4	10 / 605	620	3720	58.7	
	3	⌀16	2	355 / 10	350	700	11.1	
	4	⌀16	4	230 / 10	230	920	14.5	
	5	⌀16	4	10 / 460	485	1940	30.6	
	6	⌀6,3	70	10 / 5 / 12	150	10500	25.7	
					Total+10%:		171.5 (⌀2): 343.0	
V 32=V 45	1	⌀10	2	355 / 10	620	1240	7.6	
	2	⌀16	3	10 / 605	620	1860	29.4	
	3	⌀10	2	355 / 10	615	1230	7.6	
	4	⌀16	3	355 / 10	615	1845	29.1	
	5	⌀16	2	350	350	700	11.1	
	6	⌀16	4	230 / 10	230	920	14.5	
	7	⌀16	4	10 / 460	485	1940	30.6	
	8	⌀6,3	69	10 / 5 / 12	150	10350	25.3	
					Total+10%:		170.7 (⌀2): 341.4	

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 33	1	⌀8	2	395 / 10	505	1010	4.0	
	2	⌀8	2	10 / 475	500	1000	3.9	
	3	⌀8	2	375 / 10	395	790	3.1	
	4	⌀8	2	325 / 10	390	780	3.1	
	5	⌀8	2	10 / 165	190	380	1.5	
	6	⌀12,5	2	270	270	540	5.2	
	7	⌀8	2	95 / 10	115	230	0.9	
	8	⌀8	2	330	330	660	2.6	
	9	⌀10	2	280	280	560	3.5	
	10	⌀5	30	10 / 5 / 12	112	3360		5.3
					Total+10%:		30.6	5.8
V 34	1	⌀8	2	450	450	900	3.6	
	2	⌀10	2	10 / 445	470	940	5.8	
	3	⌀8	2	360	360	720	2.8	
	4	⌀10	2	360 / 10	385	770	4.7	
	5	⌀10	2	185	185	370	2.3	
	6	⌀5	31	10 / 5 / 12	112	3472		5.5
					Total+10%:		21.1	6.1
V 35	1	⌀8	2	505 / 10	505	1010	4.0	
	2	⌀8	2	10 / 475	500	1000	3.9	
	3	⌀8	2	375 / 10	395	790	3.1	
	4	⌀8	2	10 / 370	390	780	3.1	
	5	⌀8	2	165 / 10	190	380	1.5	
	6	⌀10	2	260	260	520	3.2	
	7	⌀8	2	105 / 10	125	250	1.0	
	8	⌀8	2	330	330	660	2.6	
	9	⌀8	2	280	280	560	2.2	
	10	⌀5	30	10 / 5 / 12	112	3360		5.3
					Total+10%:		27.1	5.8
					⌀5:		0.0	161.8
					⌀6,3:		168.6	0.0
					⌀8:		245.3	0.0
					⌀10:		264.2	0.0
					⌀12,5:		79.5	0.0
					⌀16:		769.1	0.0
					⌀20:		379.6	0.0
					Total:		1906.3	161.8

FOLHA	ASSUNTO

OS DESENHOS E MATERIAIS QUE CONSTAM DESTA PLANTA, CONSTITUEM TRABALHOS ORIGINAIS DO ENGENHEIRO/PROJETISTA, ESTES TRABALHOS NÃO PODEM SER DUPLICADOS OU UTILIZADOS SEM O CONSENTIMENTO POR ESCRITO DO PROJETISTA.

AMUREL
ASSOCIAÇÃO DE MUNICÍPIOS DA REGIÃO DE LAGUNA
REGISTRO CIVIL DE PESSOAS JURÍDICAS - REGISTRO CAD 2008/43
5 ANOS 2016 2021

REPÚBLICA FEDERATIVA DO BRASIL
ESTADO DE SANTA CATARINA
MUNICÍPIO DE SANGÃO

Título

PROJETO ESTRUTURAL

Referência
GINÁSIO MUNICIPAL DE ESPORTES MUNICÍPIO DE SANGÃO - SC

Conteúdo
(I) Vigas Baldrame (2-3)

Endereço da Obra
RUA 30 DE MARÇO , SANGÃO - SC

Assinatura

Resp. Projeto
Assinado de forma digital por JEAN CARDOSO DE SOUZA:05225149945
Dados: 2021.12.06 10:59:18 -03'00'

MUNICÍPIO DE SANGÃO
CNPJ/MF: 95.780.456/0001-17

JEAN CARDOSO DE SOUZA
Engº Civil / Tec. em Eletrotécnica
CREA/SC ^ 067975-0 / CFT – SR nº 817571745-0

Desenho
LETICIA ANDRADE DE BEM
Arquiteta e Urbanista - CAU/SC nº A292389-3

Escala	Revisão
INDICADA	**00**

Art Nº | Ticket Nº | Data | Folha nº
00000000-0 | **202149945** | **NOVEMBRO/2021** | **09/22**

FORMATO (A1++): INTERNO: 1326 x 574 mm
EXTERNO: 1361 x 594 mm

A1++